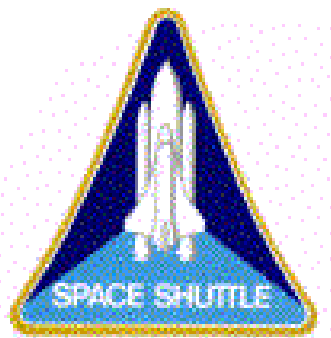




STS-102 Through STS-105 ISS 5A.1 Through ISS 7A.1



Robert R. Marriott
(281) 483-6879
May 2001



Introduction

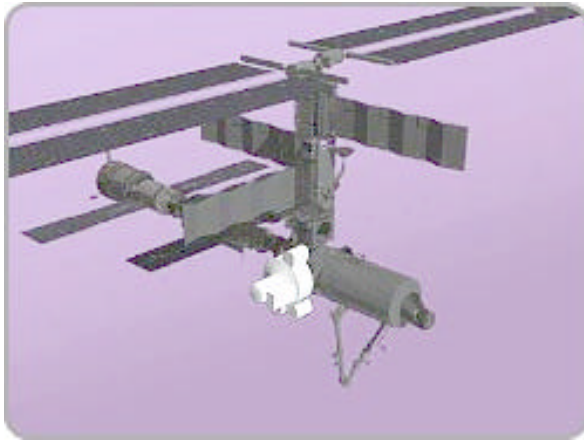
- Although Every Effort Is Made to Keep the Following Presentation up to Date and Accurate, the Information Must Be Considered Preliminary and Subject to Change at Any Time
- The Payloads and Schedules Reflect the Current Planning Assessment and Should Not Be the Considered Official Space Shuttle Program Manifest
- Official Program Launch Schedule Is Available at:
<http://sspweb.jsc.nasa.gov/ntdata/ssp/webdata/mchome/sspindex.htm>
- Official Shuttle launch information is available at:
<http://www-pao.ksc.nasa.gov/kscpao/schedule/schedule.htm>
- Space Station Assembly sequences is available at:
<http://spaceflight.nasa.gov/station/assembly/index.html>
 - Preliminary (Un-approved) Assembly Revision, G
 - Proposed Assembly Sequence Changes Through UF6 (January 2006)

Launch Schedule

- SSP Schedules Home Page – Click Launch Schedules

<http://sspweb.jsc.nasa.gov/ntdata/ssp/webdata/mchome/sspindex.htm>

STS-104 *Atlantis (OV-104)* ISS 7A



CREW

Cdr -- Steven Lindsey
Plt -- Charles Hobaugh
MS -- James F. Reilly, II (Ph.D.)
MS -- Michael Gernhardt
MS -- Janet Kavandi

Flight Profile

Launch Date: June 14, 2001
Launch Time: 4:15 p.m. EDT
Window 0 Hour 10 Minutes
Orbit 51.6 Degrees @ 170 NM
KSC Landing June 25, 2001 @ 12:30 ET

Ground Controllers

Ascent/Entry Bill Foster
SSP Lead Mike Marsh
SSP Alternate Johnnie Brothers
ISS 7A Lead Rick Hashop



Flight Directors

Lead P. Hill

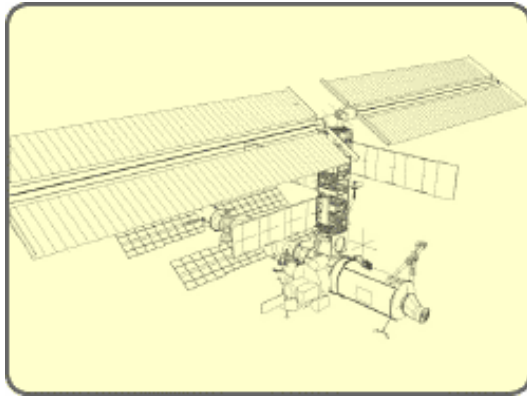
Mission Objectives - ISS 7A

Joint Airlock and High Pressure Gas Assembly

Airlock Provides Station-based Extravehicular Activity (EVA) Spacewalking Capability for Both US and Russian spacesuits.

High Pressure Gas Assembly Supports Spacewalk Operations and Augments the Service Module Gas Resupply System.

STS-105 *Discovery (OV-103)* ISS 7A.1



CREW

Cdr -- Scott Horowitz
Plt -- Rick Sturckow
MS -- Daniel Barry
MS -- Patrick Forrester
Expedition-3
(up): Mikhail Turin
Frank Culbertson
Vladimir Dezhurov

Ground Controllers

Ascent/Entry Bill Foster
SSP Lead Johnnie Brothers
SSP Alternate Mike Marsh
ISS 3A Lead Richard Harris

Flight Directors

Lead P. Dye

Mission Objectives - ISS 7A.1

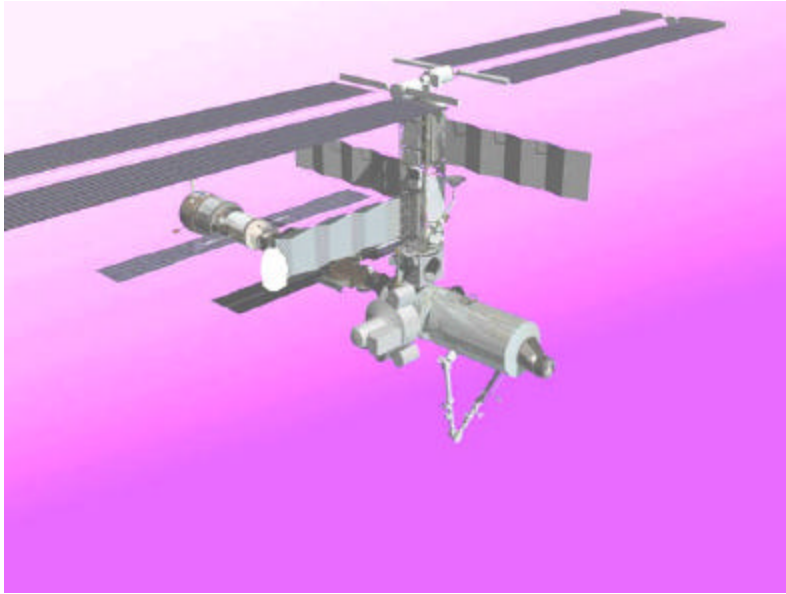
Donatello Multi-Purpose Logistics Module (MPLM)

U.S. Stowage Racks and International Standard Payload Racks (ISPRS) Carried in MPLM.

Flight Profile

Launch Date July 12, 2001
Launch Time 4:45 a.m. EDT
Window 0 Hour 10 Minutes
Orbit 51.6 Degrees @ 170 NM
KSC Landing July 23, 2001 @ TBD

ISS 4R



Mission Objectives - ISS 4R

Docking Compartment 1 (DC-1) and Strela Boombe Installed.

Provides Additional Egress, Ingress Location for Russian-based Spacewalks and a Soyuz Docking Port.

Flight Profile

Russian Soyuz Rocket

Launch Date July 24, 2001

Launch Time TBD . CT

Window 0 Hour 10 Minutes

Orbit 51.6 Degrees @ 170 NM

STS-108 *Endeavor (OV-105)* ISS UF-1



CREW

dr -- Dominic L. Gorie
Plt -- Mark E. Kelly
MS -- Linda M. Godwin
MS -- Daniel M. Tani
Expedition-4 (up):
Carl E. Walz
Yuri Onufrienko
Daniel W. Bursch

Flight Profile

Launch Date November 29, 2001
Launch Time TBD
Window 0 Hour 10 Minutes
Orbit 51.6 Degrees @ 170 NM
KSC Landing December 9@ TBD

Ground Controllers

Ascent/Entry Bill Foster
SSP Lead Mike Marsh
SSP Alternate Ray Grossman
ISS UF-1 Lead Brent Romero

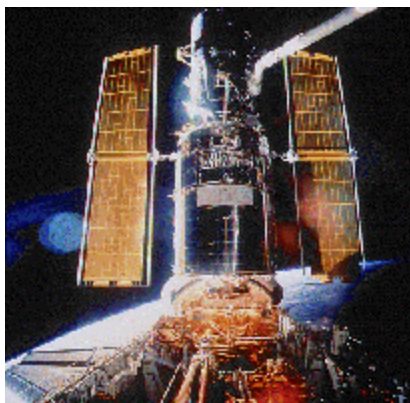
Flight Directors

Lead TBD

Mission Objectives - ISS 7A

Provides for research work by delivering experiment racks for the U.S. Laboratory and two storage racks.

STS-109 Columbia (*OV-102*)



Ground Controllers

Ascent/Entry Joe Morris
SSP Lead Frank Stolarski
SSP Alternate Mike Marsh

CREW

Cdr -- Scott Altman
Plt -- Duane Carey
PC -- John Grunsfeld
MS -- Nancy Currie
MS -- James Newman
MS -- Richard Linnehan
MS -- Michael Massimino

Flight Directors

Lead B. Austin

Mission Objectives:

Third Hubble Space Telescope Servicing Mission

.

Flight Profile

Launch Date Jan. 17, 2002

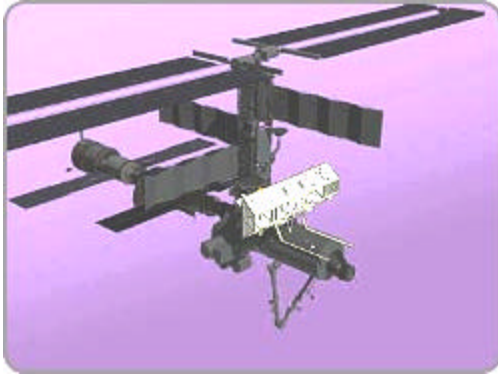
Launch Time: TBD

Window Less Than 5 minutes

Orbit 28.5 deg. 308 nm

KSC Landing Jan. 28, 2002 @ TBD

STS-110 *Atlantis (OV-104)* ISS 8A



CREW

Cdr -- TBD

Plt -- TBD

MS -- TBD

Flight Profile

Launch Date: February 28, 2002

Launch Time: TBD

Window 0 Hour 10 Minutes

Orbit 51.6 Degrees @ 170 NM

KSC Landing March 9, 2002 @ TBD

Ground Controllers

Ascent/Entry Bill Foster

SSP Lead Ray Grossman

SSP Alternate Mike Marsh

ISS 8A Lead Gail Poole

Flight Directors

Lead TBD

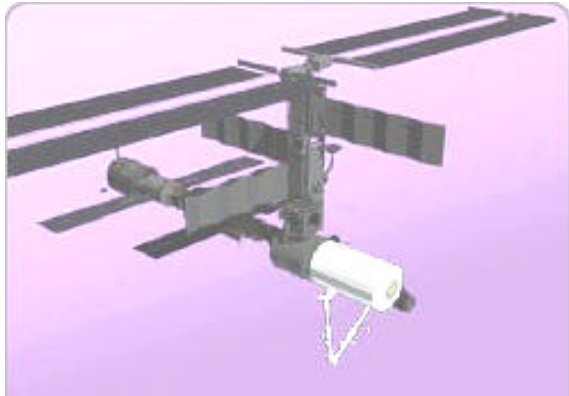
Mission Objectives - ISS 8A Assembly

Integrated Truss Structure S0 is center segment of the 91-meter (300-foot) station truss, attached to the U.S. Lab.

Built in California and provided by Boeing, the Mobile Transporter creates a movable base for the station's Canadian mechanical arm, allowing it to travel along the station truss after delivery of the Mobile Base System, or MBS.

First Flight of the Orbiter Solid State Recorder

STS-111 *Endeavour (OV-105)* ISS UF2



CREW

Cdr -- TBD

Plt -- TBD

MS -- TBD

MS -- TBD

MS -- TBD

M S- MS--Philippe Perrin (France/CNES)

Ground Controllers

Ascent/Entry Ray Grossman

SSP Lead Johnnie Brothers

SSP Alternate Mike Marsh

ISS UF2 Lead Rick Hashop

Flight Directors

Lead P. Engelauf

Mission Objectives - ISS UF2

The Multipurpose Logistics Module, or MPLM, carries experiment racks and three stowage and re-supply racks to the station.

Flight Profile

Launch Date: April 18, 2002,

Launch Time: TBD

Window 0 Hour 10 Minutes

Orbit 51.6 Degrees @ 170 NM

KSC Landing April 28, 2002 TBD

The Mobile Base System is installed on the Mobile Transporter to complete the Canadian Mobile Servicing System, or MSS. The mechanical arm will now have the capability to "inchworm" from the U.S. Lab fixture to the MSS and travel along the Truss to work sites.

STS-107 Columbia (OV-102)



CREW

Cdr -- Rick Husband
Plt -- William "Willie" McCool
MS -- Michael Anderson
MS -- Kalpana Chawla
MS -- David Brown
MS -- Laurel Clark
PS -- Ilan Ramon (Israel)

Flight Profile

Launch Date May 23, 2002
Launch Time TBD
Window TBD
Orbit **39 Degrees** @ 150 NM
KSC Landing June 9, 2002 @ TBD

Ground Controllers

Ascent/Entry Bill Foster
SSP Lead Frank Stolarski
SSP Alternate Mike Marsh

Flight Directors

Lead K. Beck

Mission Objectives - Research Mission

SPACEHAB-DM

FREESTAR

STS-112 *Atlantis (OV-104)* ISS 9A



CREW

Cdr -- TBD

Plt -- TBD

MS -- TBD

Flight Profile

Launch Date: July 11, 2002

Launch Time: TBD

Window 0 Hour 10 Minutes

Orbit 51.6 Degrees @ 170 NM

KSC Landing July 22, 2002 @ TBD

Ground Controllers

Ascent/Entry Bill Foster

SSP Lead Ray Grossman

SSP Alternate Mike Marsh

ISS 9A Lead Robert Reynolds

Flight Directors

Lead TBD

Mission Objectives - ISS 8A Assembly

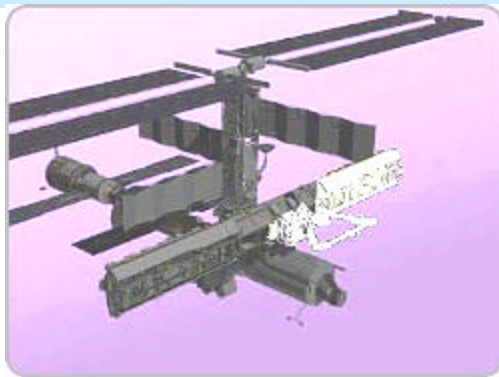
Delivers the first starboard truss segment, the S1 Truss, to be attached to the Central truss segment, the S0 Truss.

Backup S-band communications capability is provided.

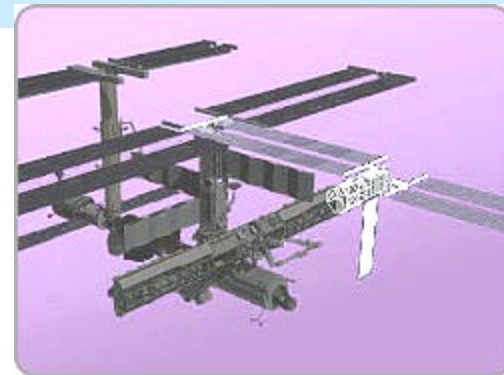
CETA cart can be used by space walkers to move along truss with equipment.

ISS ASSEMBLY

ISS 11A: **October 2002** Launch
First left-side truss segment
(ITS P1); Crew and Equipment
Translation Aid (CETA) Cart B



ISS 12A: **December 2002** Launch
Second left-side truss segment (ITS
P3/P4); Solar array and batteries.



January 2003 ISS 13A

